

BALL IN GROOVE

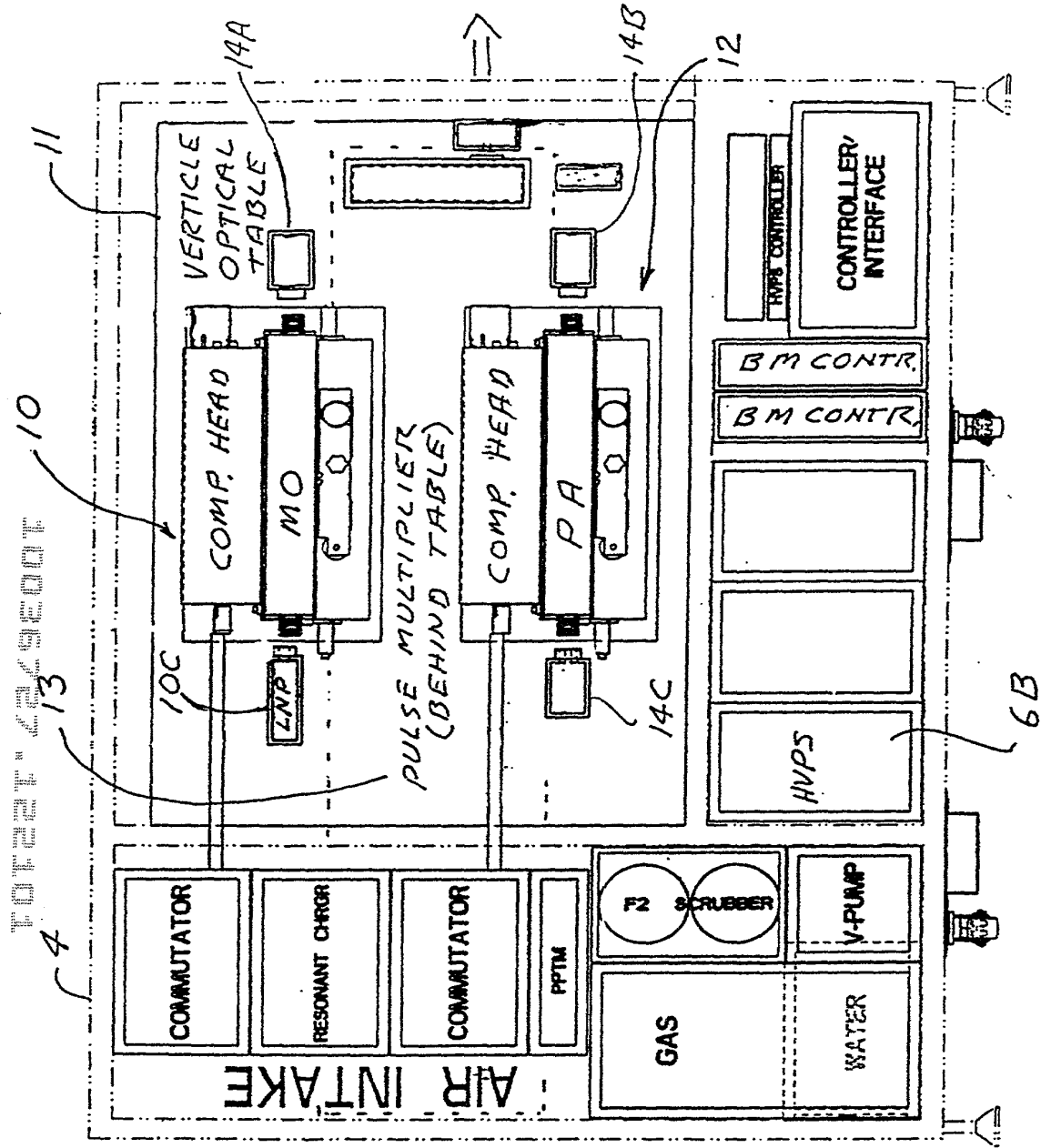
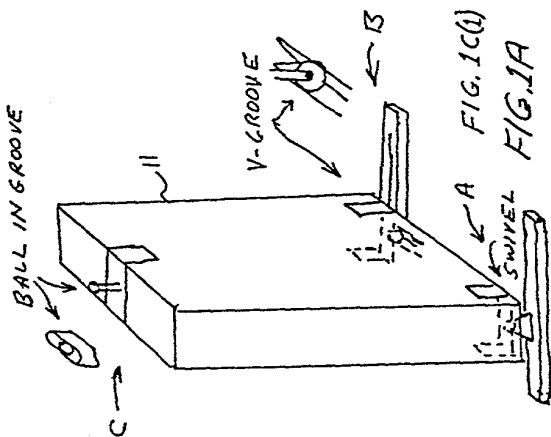


FIG. 1

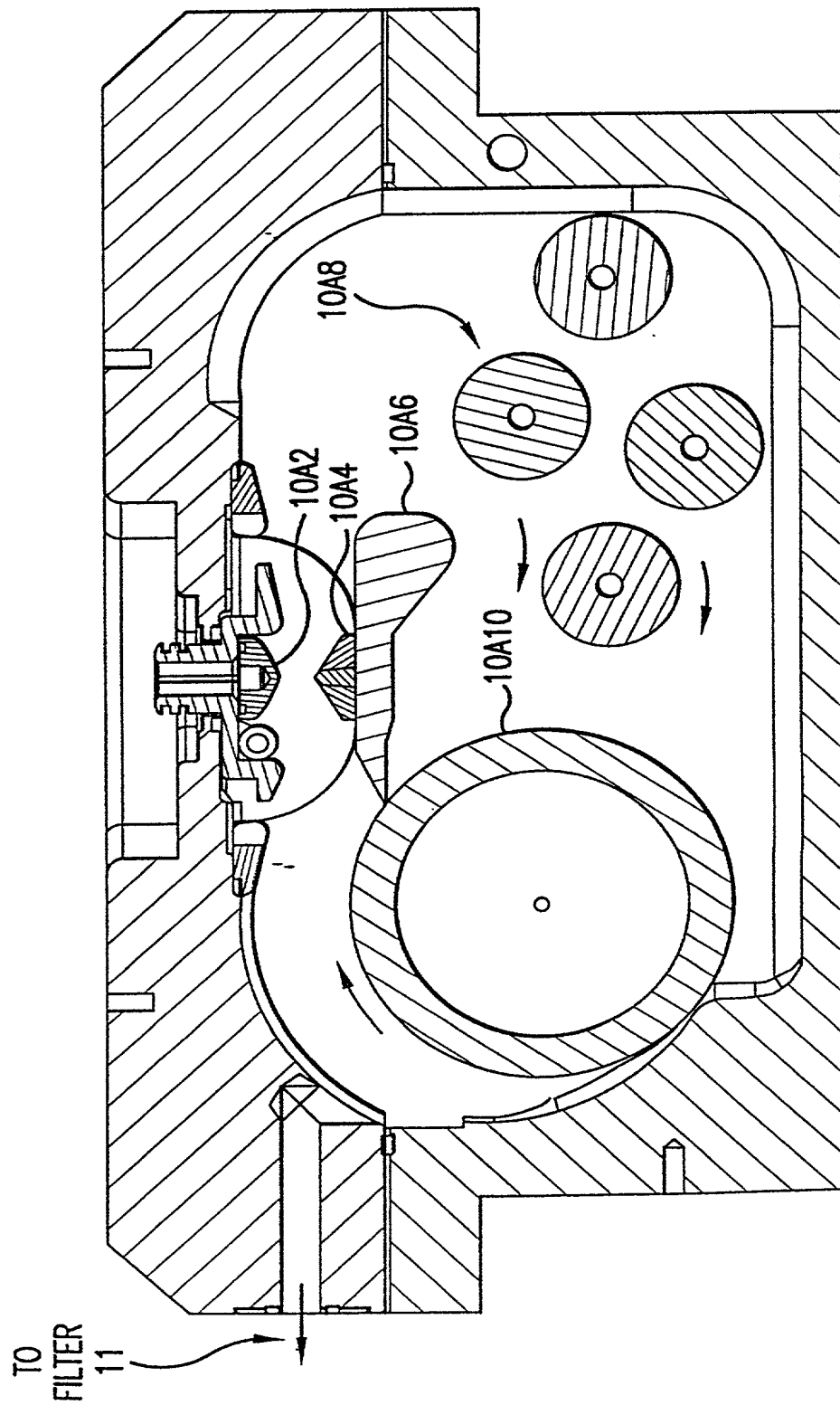


FIG. 2

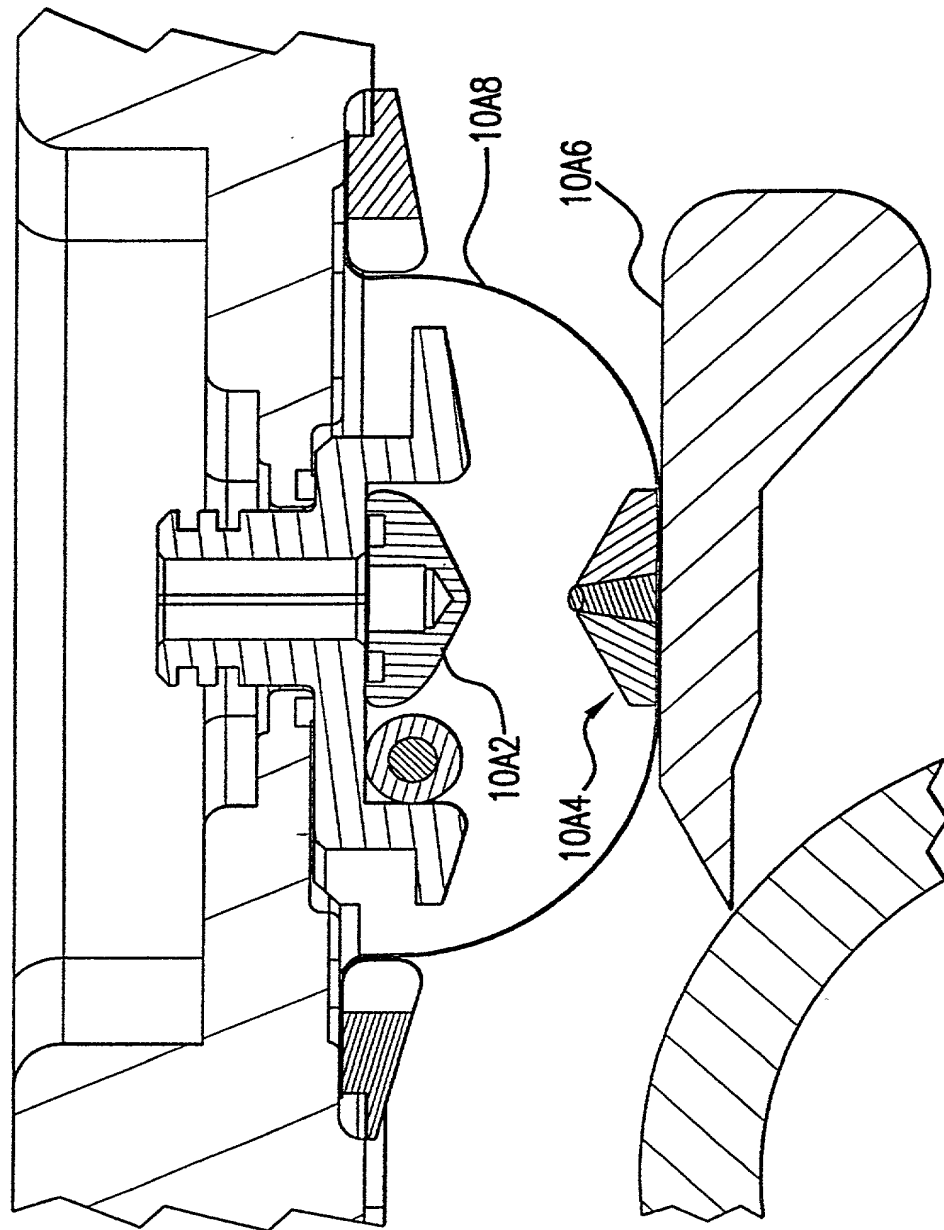


FIG. 2A

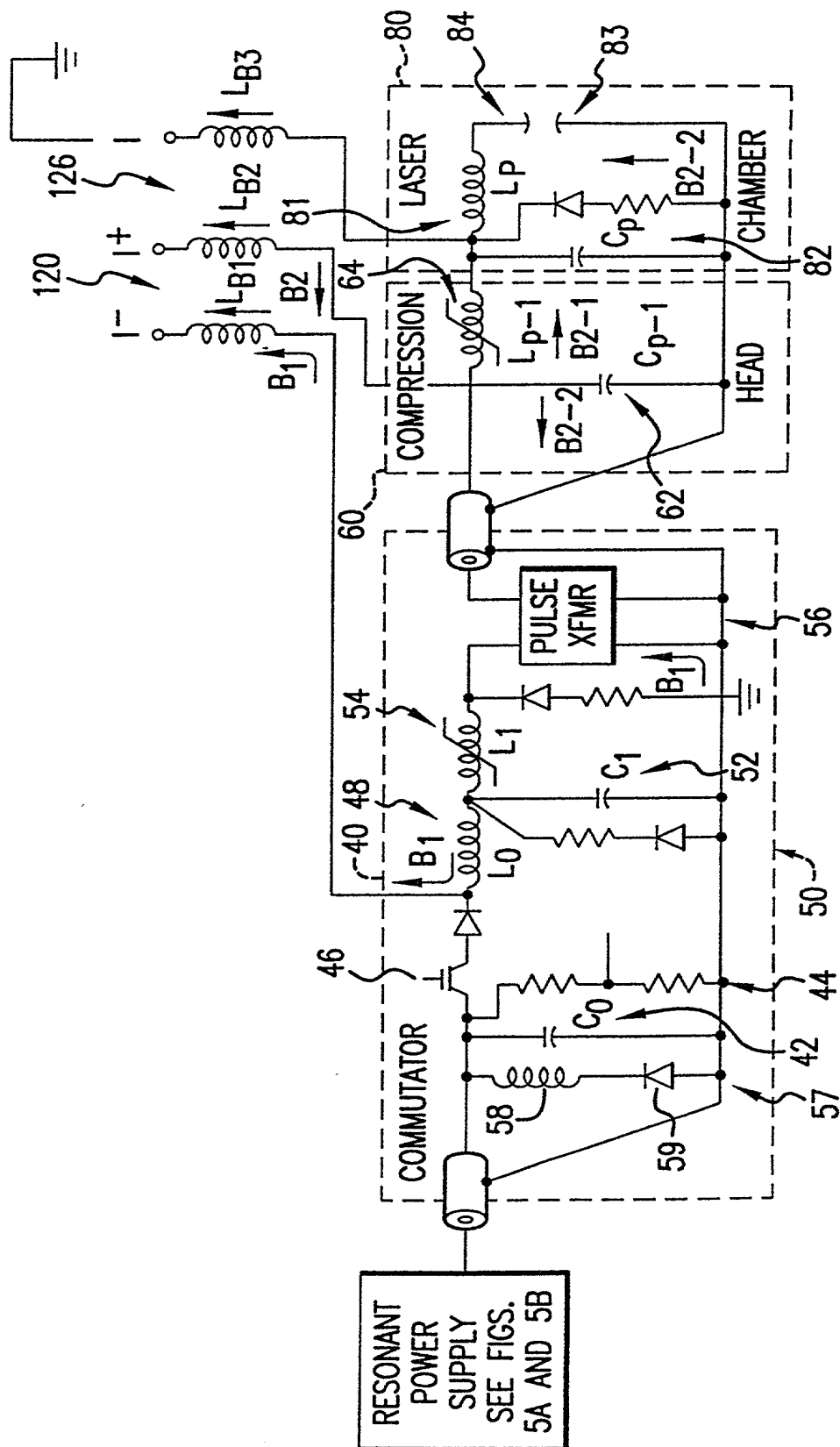


FIG. 3A

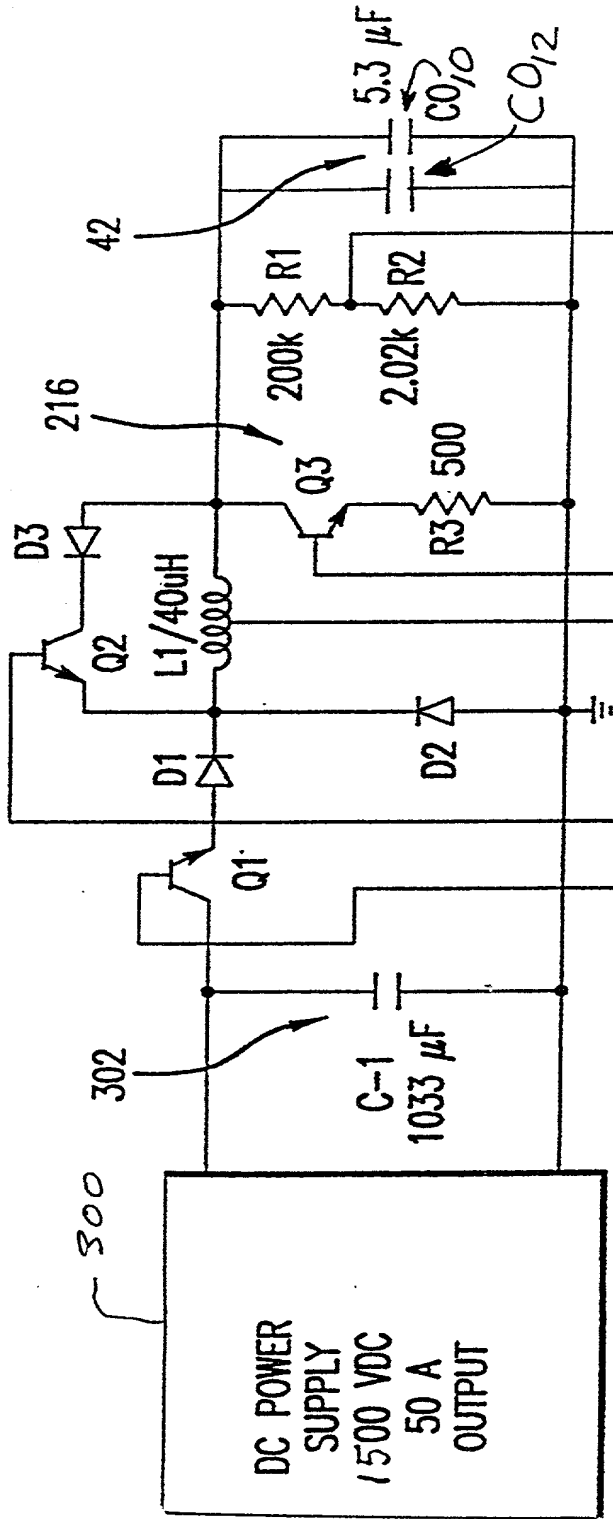


FIG. 3B

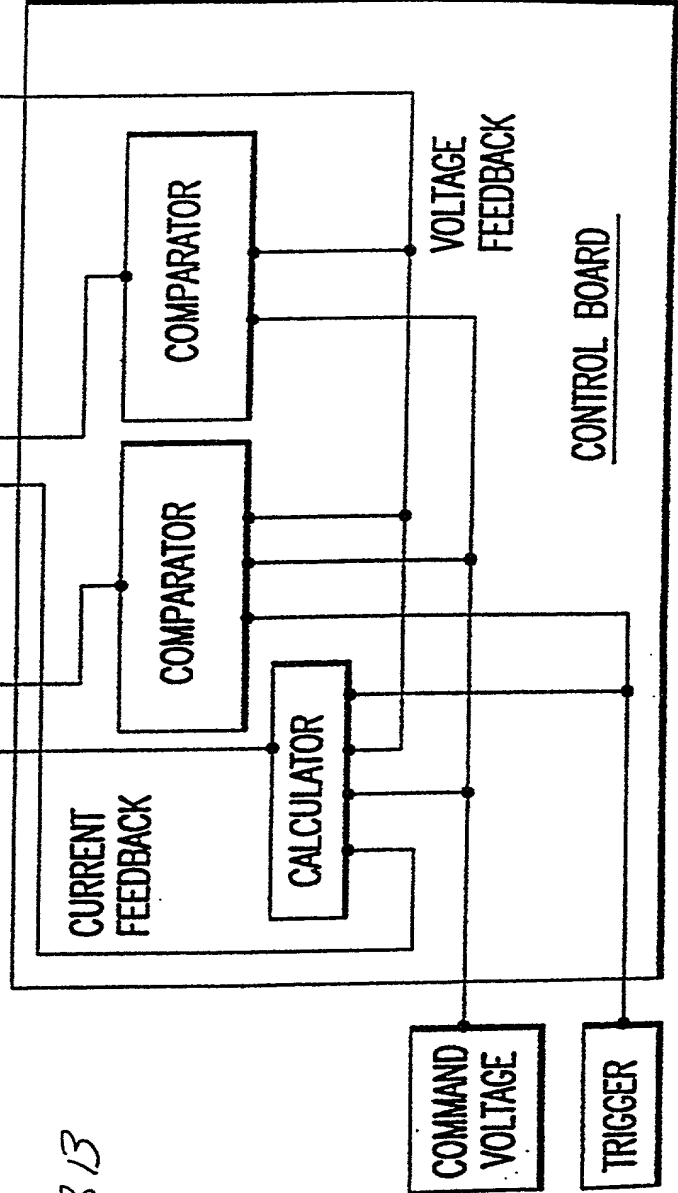
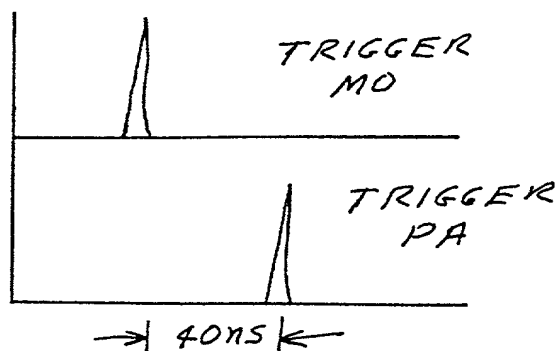
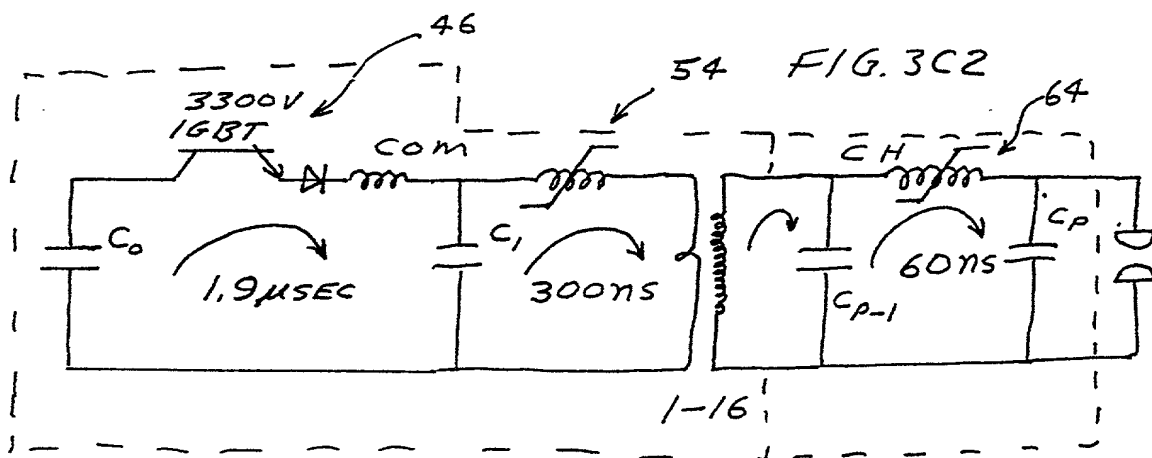
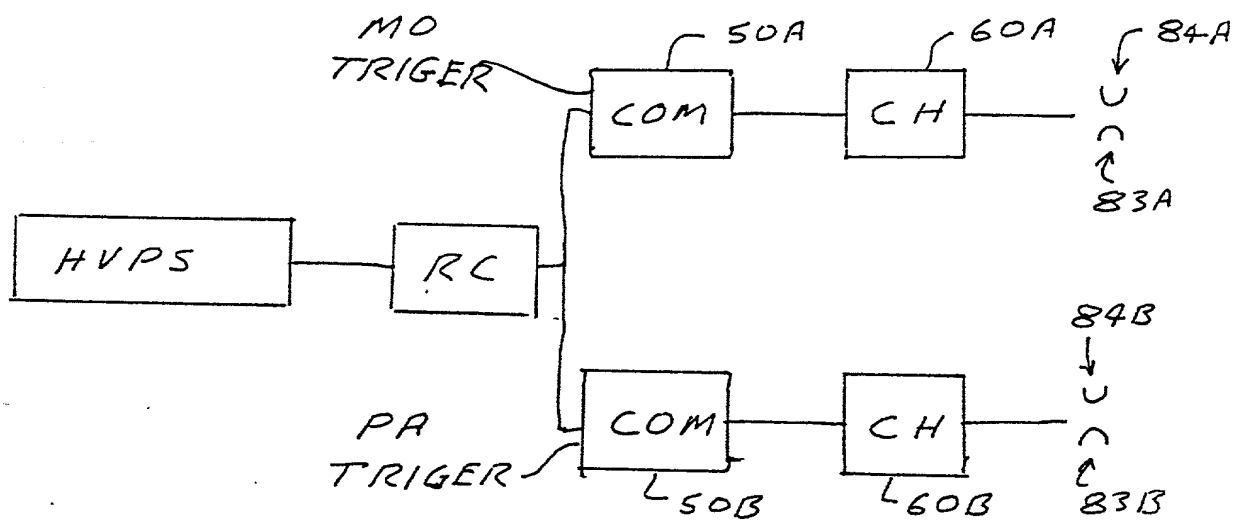
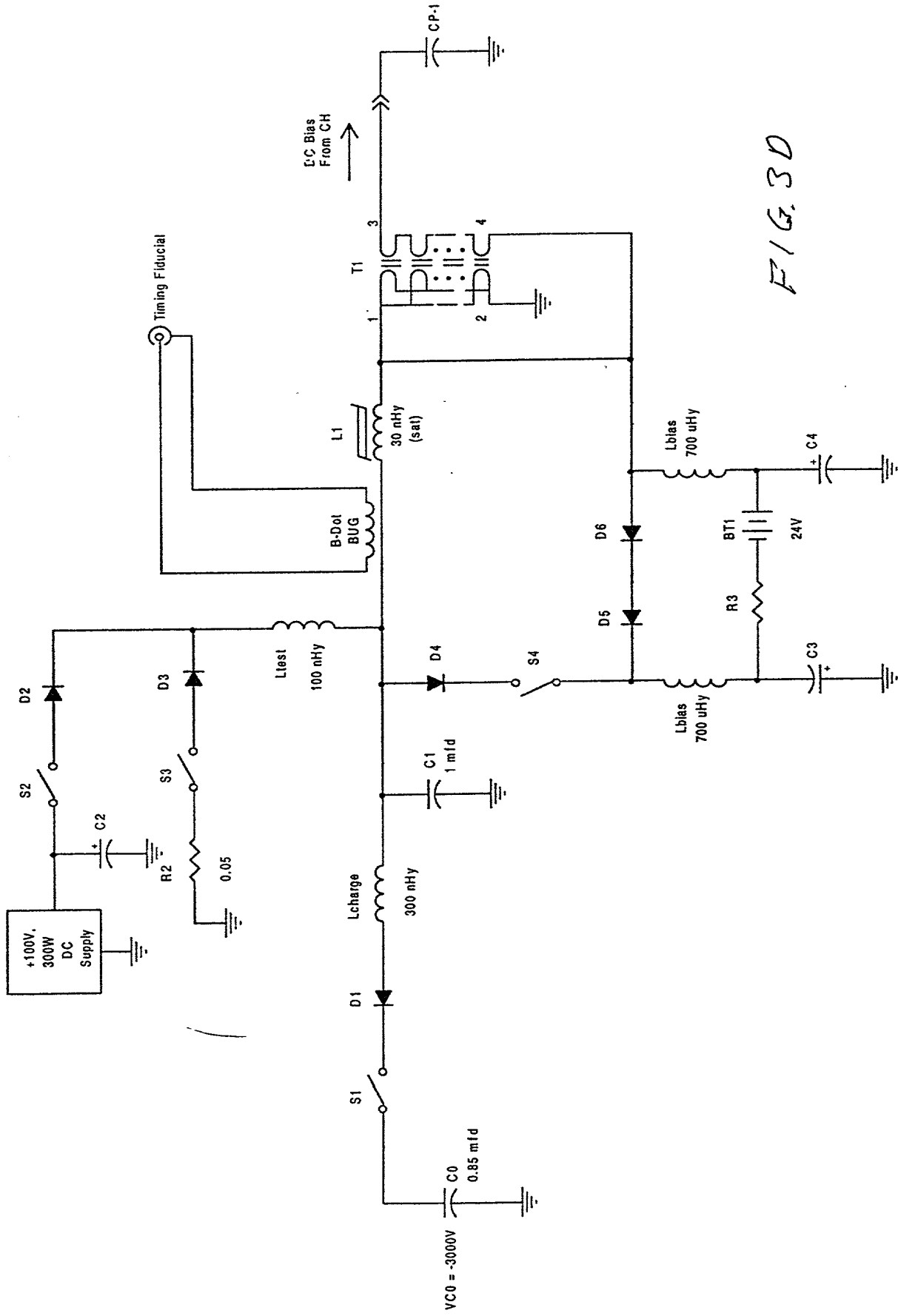


FIG. 3C1





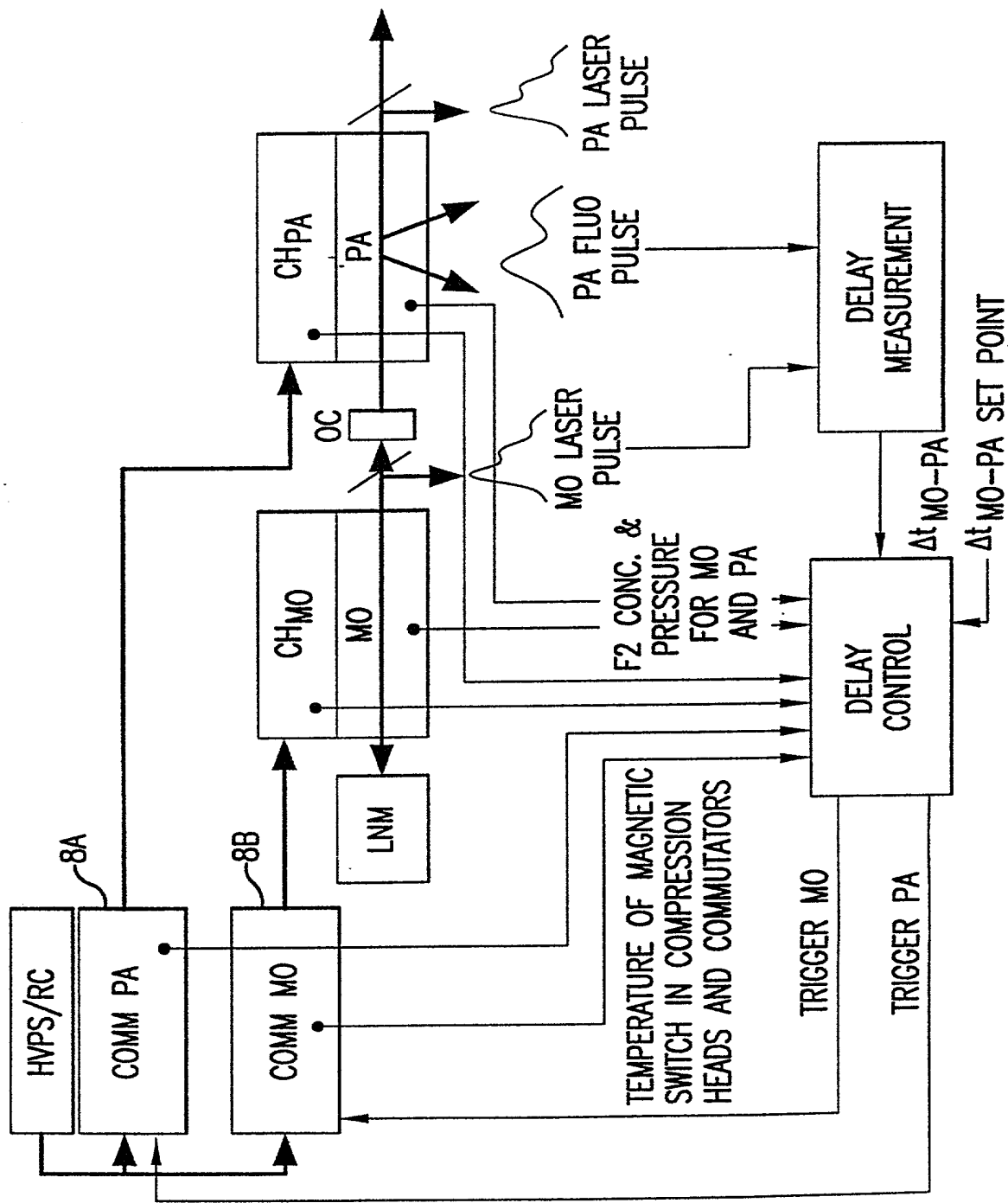


FIG. 4

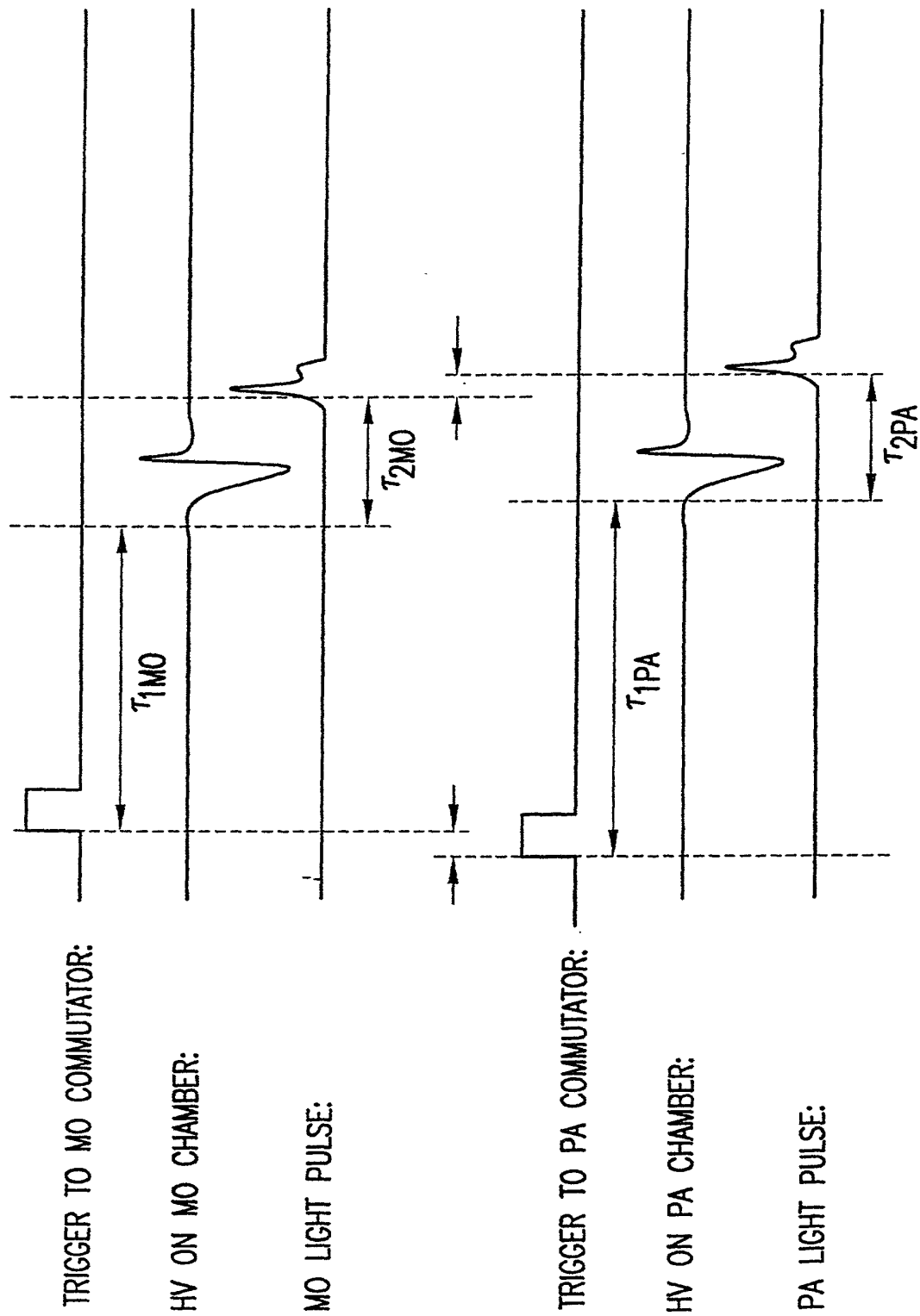


FIG.4A

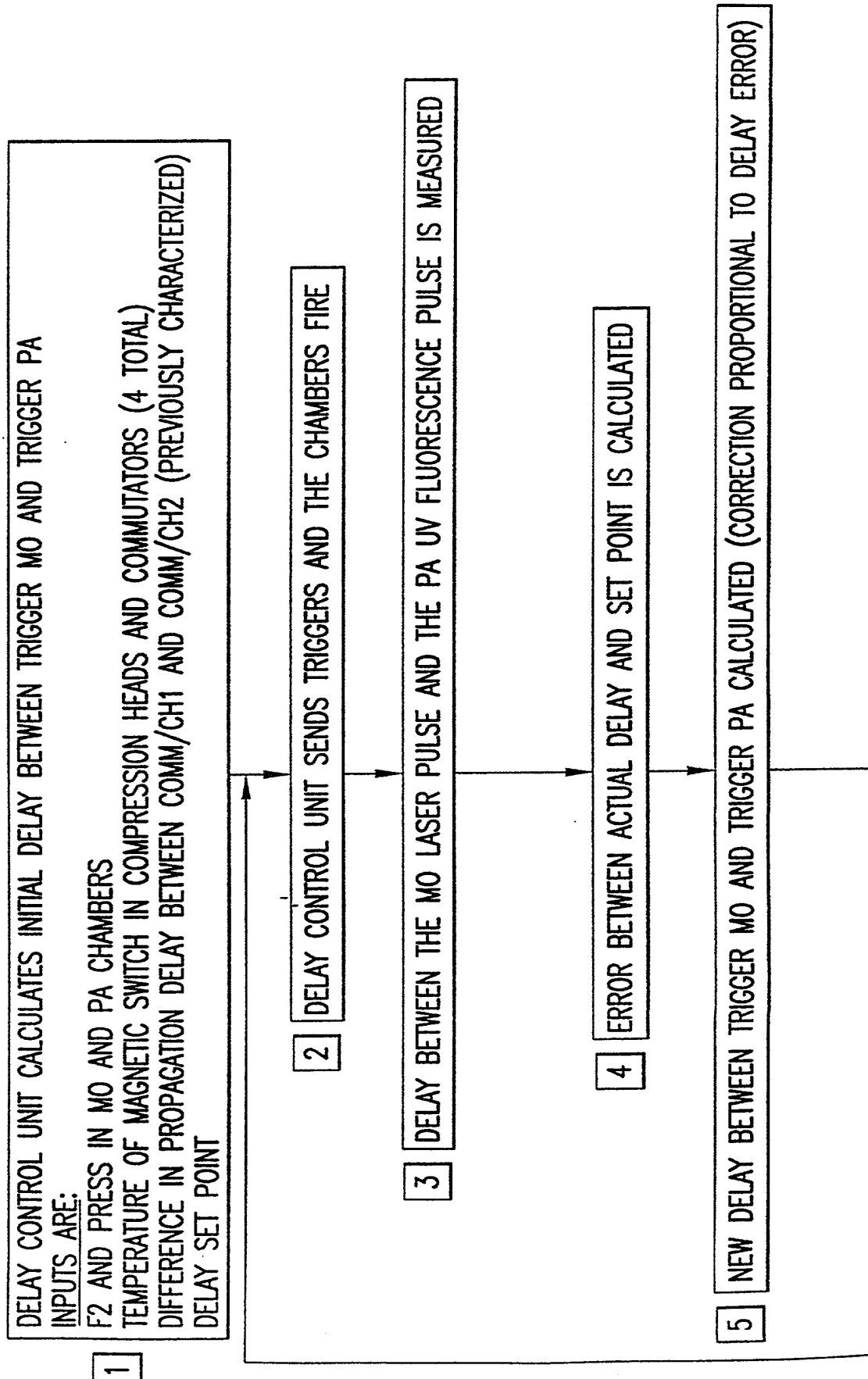


FIG.4B

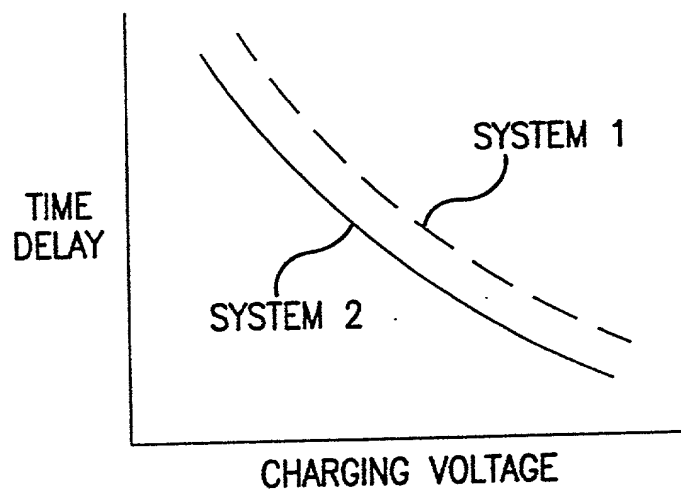
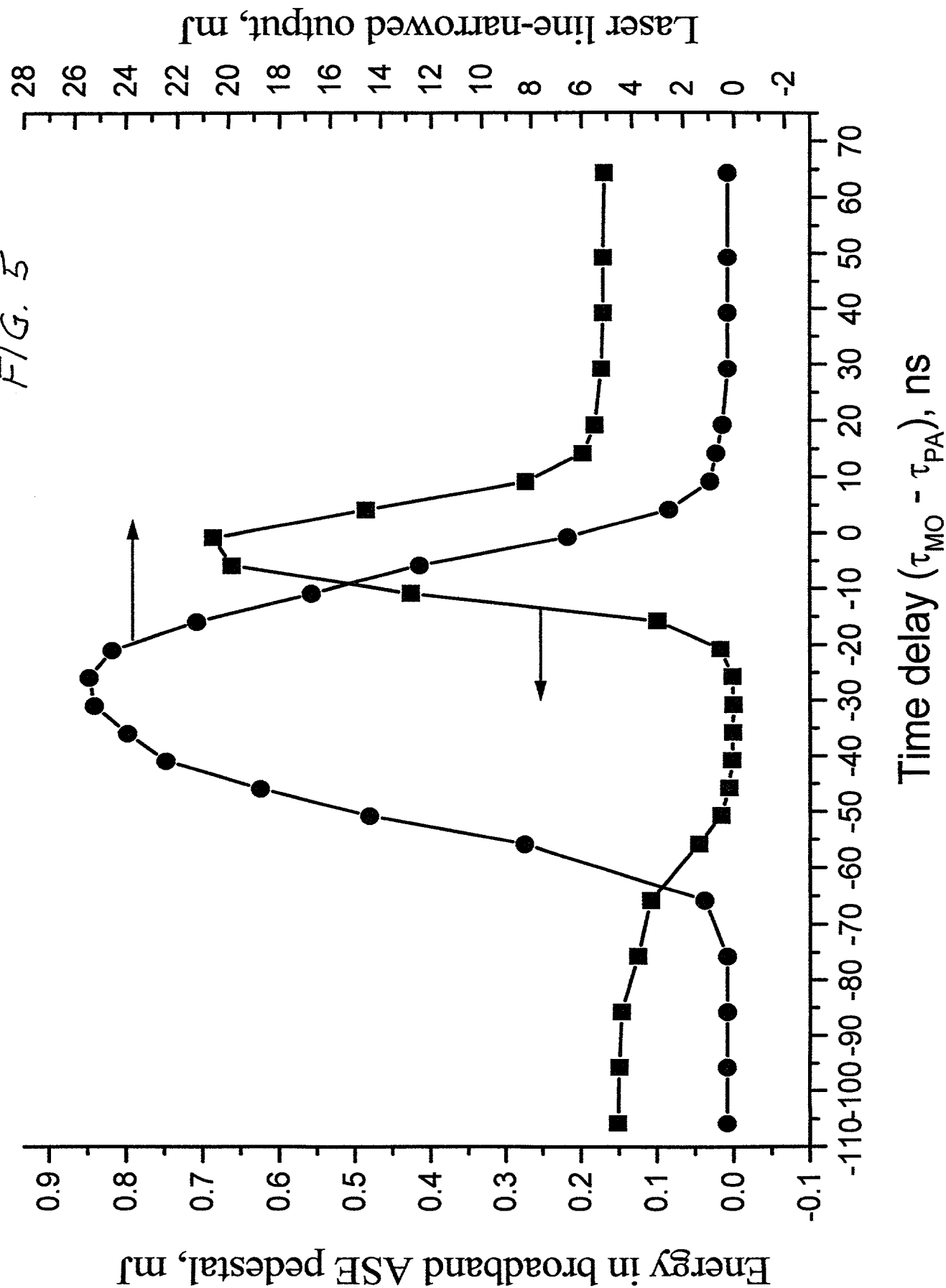


FIG.4C

1003627 123434

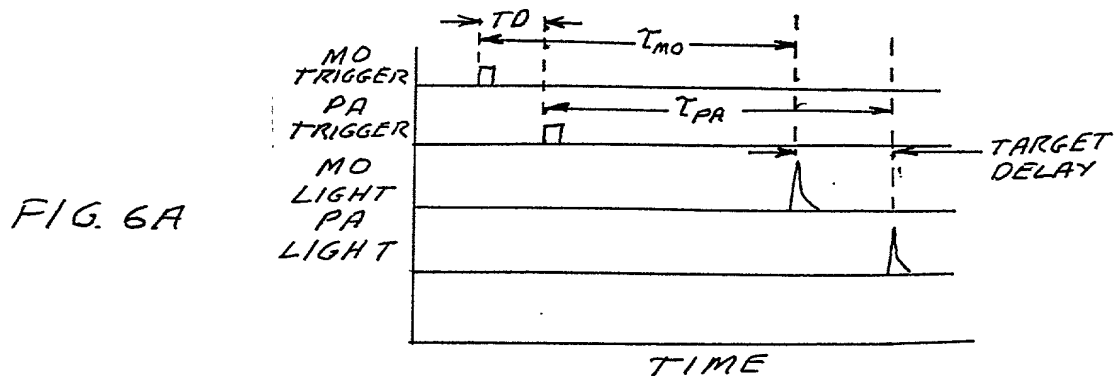
FIG. 5



```

graph TD
    START([START]) --> D1{HAS 1 MINUTE.  
ELAPSED  
SINCE  
PAT ?}
    D1 -- N --> S1[SET TD = TDL]
    S1 --> D2{HAS LASER  
PULSE  
BEEN  
REQUESTED  
?}
    D2 -- N --> D1
    D2 -- Y --> S2[SET TD = 110MS]
    S2 --> D3{HAS  
MO P-CELL  
> THRESHOLD  
?}
    D3 -- N --> D1
    D3 -- Y --> M1[MEASURE  
MO P-CELL]
    M1 --> D4{TRIGGER  
PA  
RECORD  
PAT  
START  
TIMER  
T2 ?}
    D4 -- Y --> S3[STOP TIMER  
T2 AND  
CALCULATE  
τPA]
    S3 --> D5{DOES  
PA P-CELL  
> TARESHOLD}
    D5 -- N --> D1
    D5 -- Y --> M2[MEASURE  
PA P-CELL]
    M2 --> S4[STOP TIMER  
T1 AND  
CALCULATE  
τMO]
    S4 --> D6{HAS LASER  
PULSE  
BEEN  
REQUESTED  
?}
    D6 -- Y --> S2
    D6 -- N --> D1
    S4 --> S5[TRIGGER  
MO  
RECORD  
MO  
START  
TIMER  
T1]
    S5 --> D7{HAS  
TIME  
SINCE  
MO  
EXCEEDED  
TD  
?}
    D7 -- Y --> S3
    D7 -- N --> S1
    S5 --> S6[START]
    S6 --> D1
    S5 --> S7[END]
    S7 --> D1
    S5 --> S8[END]
    S8 --> D1
    S5 --> S9[END]
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    S5 --> S10[END]
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    S5 --> S11[END]
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    S5 --> S13[END]
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    S5 --> S16[END]
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    S141 --> D1
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    S142 --> D1
    S5 --> S143[END]
    S143 --> D1
    S5 --> S144[END]
    S144 --> D1
    S5 --> S145[END
```

FIG. 6



TIME

FOOTNOTES

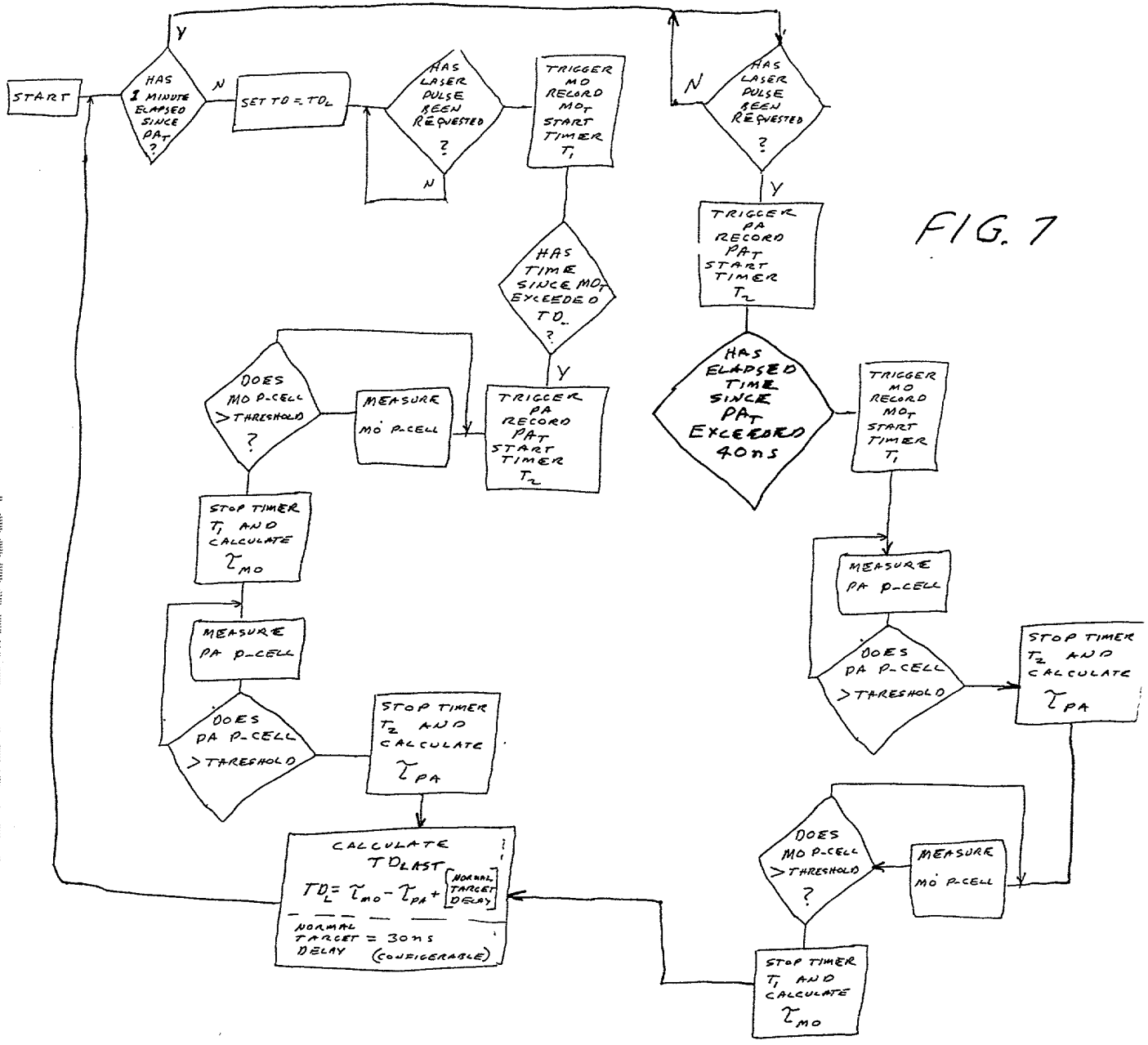


FIG. 7A

